Form PTC)-144		partment of		ATTY. DOCKET NO. P50881-2C1		SERIAL NO 10/074,639).	
INFO	DN/LA	ratem TION DISCLOSU	~~ ~~ <i>(</i> ~~	- emeter (APPLICANT		10/074,039		
INFO	KIVIA		RESIATE	DE 1 5 5005	applicated				
		BY APPLICA	NT \ I	Tak , .	2-1				
[se several sheets if i	1		FILING DATE	·	GROUP		ا ، ، ،
L	(Us	se several sheets if i	tecessary)	TO TRADENT	February 13, 2002		Not Assigne	<u>d 16</u>	94
	, -			PATENT	DOCUMENTS				
Examiner	1	Document	Date		Name	Class	Subclass		Date
Initial	ļ	Number				 		If Appr	opriate
						\			_
	T								
<u> </u>	+					+	+		
 	╁			 			-		
ļ	╀						 		
	<u> </u>	L			TO DO OUR FRANCE			L	
		D		GN PATE	NT DOCUMENTS	Clair	Cubala	T	1-4:
		Document Number	Date]	Country	Class	Subclass	Trans Yes	
						 	 	ies	No
BC	DV	EP 0 808 839 A1	11/26/97	EPO		C07D~	303/48-		
					RECEIVED				
				j.					
	_				APR 1 9 2002		 		
				Tecl	nnology Center 2600	 			
					IIIIOIOB)				
		OTHER DOCK	MENTS (I	ncludine Au	thor, Title, Date, Pertin	ent Page:	Etc.)		
				<u></u>	,		,		
7-									
									
EXAMIN	ER	L		·	DATE CONSIDERED	5			
		da Col	man	>	Dec. 2		E00		j
			<u> </u>		citation is in conformat			raw line	
					Include copyof this for				
applicant.									
n:\yps\respon	se\P50	881-2C1\foreign1449.do	c						

SERIAL NO.

1449 MATIO	Pate	epartment of	Commerce	ATTY DOCKETNO		CODING	heet 1 c	
MATIO		nt and Trade	mark Office	ATTY, DOCKET NO. P50881-2C1		SERIAL NO 10/074,639	Э.	
	N DISCLOS BY APPLIC		EMENT	APPLICANT Thompson et al.				
Suse se	veral sheets ij	necessary)		FILING DATE February 13, 2002		GROUP Not Assigne	4 1/0	 つ4
3		U.S	. PATENT			Act vissible	25 10	<u>- 1</u>
	Document Number	Date		Name	Class	Subclass		
				RECEIVED				
			Tech	nology Center 2600				
		PORT	(A) (A) (A)					
	Document Number	Date	GN PATER	Country	Class	Subclass		lation N
w wc	98/12211	03/1998	PCT		C07K-	5/078-		
		-	 			-		
0	THER DOC	UMENTS (I	ncluding Au	hor, Title, Date, Pertine	ent Pages	Etc.)		
_								
							-	
 -								
ncla	Col	mas		DATE CONSIDERED	20	03		
	ow wo	Document Number Document Number W W0 98/12211 OTHER DOC	FORE Document Number FORE Document Number Date Number OTHER DOCUMENTS (In Initial if citation considered, whe	TOREIGN PATENT Document Number FOREIGN PATENT Document Number W WO 98/12211 03/1998 PCT OTHER DOCUMENTS (Including Augustate) OTHER DOCUMENTS (Including Augustate) Including Augustate) Including Augustate Initial if citation considered, whether or not considered.	U.S. PATENT DOCUMENTS Document Name Name	Document Number Date Name Class RECEIVED APR 2 4 2002 Gechnology Center 2600 FOREIGN PATENT DOCUMENTS Document Number Country Class Number Number PCT OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages) OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages) DATE CONSIDERED DATE CONSIDERED	U.S. PATENT DOCUMENTS Document Name Class Subclass	U.S. PATENT DOCUMENTS Document Name Class Subclass Filing If Appl

applicant.
n:\pps\Response\P50881-2C1\1449a.doc

			Sheet 1 of 7
Form PTO-1449	U.S. Department of Commerce Patent and Trademark Office	ATTY, DOCKET NO. P50881-2C1	SERIAL NO. NOI Assigned 10/074639 E
	ON DISCLOSURE STATEMENT -BY APPLICANT	APPLICANT Thompson et al.	u.s. 07463
(Use se	veral sheets if necessary)	FILING DATE Herewith Feb. 13, 2002	Peor Possion No.

Examiner	ĺ	Document	Date	Name	Class	Subclass	Filing Date
initial	<u></u>	Number					If Appropriate
BC	AA	4,447,419	05/1984	G. Quadro	424	177	
BC	AB	5,523,313	06/1996	Nunami, et al.	514	365	
BC	AC	5,395,824	03/07/95	Higuchi, et al.	514	19	
BC	AD	5,424,325	06/13/95	Ando, et al.	514	357	
BC	AE	5,422,359	06/06/95	Ando, et al	514	365	

FOREIGN PATENT DOCUMENTS

		Document	Date	Country	Class	Subclass	Irans	lation
	<u> </u>	Number					Yes	. No
BC	AF	EP 0 504 938A2	03/1992	. EPO				
BC	AG	WO 94/23033	10/1994	PCT				
BU	AH	WO 96/40737	12/1996	PCT				L
BC	Ai	WO 96/13523	05/1996	PCT		_		
BC	AJ	EP 0 611 756 A2	08/1994	EPO				
BC	AK	WO 94/04172	03/1994	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

BC	AL	Bossard, et al., (1996), J. of Bio. Chem;, Vol. 271, No. 21, pp. 12517-12524.								
BC	AM	Bromme, et al., (1996), Biochemical Journal, Vol. 315, pp. 85-89, especially abstract, Figure 1.								
3C	AN	lasco, et al., (1994), J. of Bio. Chem; Vol. 269, No. 43, pp. 27136-27142, especially the abstract.								
BC	AO	agrath, et al., (1992), J. of M ed. Chem; <i>Vol. 35, No. 23</i> , pp. 4279-4283, especially page 4281, column 1, structures 1-4								
36	AP	Graybill, et al., (1992), Bioorganic & Medicinal Chemistry Letters; Vol. 2, No. 11, pp. 1375-1380, especially page 1377, Scheme I.								
BC	AQ	Palmer, et al., (1995), J. of Med. Chem; Vol. 38, No. 17, pp. 3193-3196.								
BC	AR	Danheiser, (1995), Genetic Engineering News; Vol. 15, No. 17, pp. 1-1 and 35-36.								
3C	AS	nick, (1996), Perspectives in Drug Discovery & Design; Vol. 6, pp. 48-63.								
EXAMINE		Date Considered Dec. 34 2003								

•EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SERIAL NO.

GROUP

Not Assigned 10/074, 639

						5.13,2002	162	}	
			,	U.S. PATENT	DOCUMENTS				
Examiner Initial	\perp	Document Number	Date		Name	Class	Subclass	1	g Date ropriat
BC	AT	5,501,969	03/26/96	Hastings, et	al.	435	240.2		
BC	AU	5,057,525	10/1991	G. Van Dae	le	514	318		
BC_	AV	4,994,471	02/1991	Lalinde, et a	ıl.	514	326		
BC	AW	5,374,637	12/1994	Van Daele		514	320		
			FC	DREIGN PATE	NT DOCUMENTS				
		Document Number	Date		Country	Class	Subclass	<u>Trons</u> Yes	station I No
BC	AX	EP 0 603 873 A1	06/1994	EPO					
BC	AY	WO 97/47642	12/1997	PCT					
8c	AZ	WO 97/47643	12/1997	PCT					
BC	ВА	WO 98/05336	02/1998	PCT					
BC_	вв	WO 98/08802	03/1998	PCT					
BC	вс	WO97/49668	12/1997	PCT					
		OTHER DOC	CUMENTS (Inc	cluding Auth	or, Title, Date, Per	tinent Pages, Etc.)		L
Be	BD	Potempa, et al., "Host tissue destruction", (19	and Porphyron	monas gingival	is proteinases in perio	odontitis: A biochem	ical model of i	nfection :	and
BC	BE	Drake, et al., "Catheps Biological Chemistry	in K, but Not (Cathepsins B, L				(1996), J	l. of
BC	BF	Bromme, et al., "Hum Biological Chemistry	an Cathepsin 0	2, a Matrix Pro	tein-degrading Cyste	ine Protease Express	ed in Osteoclas	its", (199	6), J. of
BC	ВG	Delaisse, et al., "In Vi Biochemical and Bio	o and In Vitro	Evidence for t			Bone Resorpt	ion", (198	B 4),
3C	вн	Delaisse, et al., "Inhibi					80), Biochem.	J., 192, j	pp.
XAMINER					DATE CONSIDER	ED .			
Bu	end	a Colen	Cron			94, a	003		
		citation considered, v					through citation	on if not i	in

U.S. Department of Commerce

INFORMATION DISCLOSURE STATEMENT

BY APPLICANT

Patent and Trademark Office P50881-2C1

ATTY, DOCKET NO.

APPLICANT

Thompson et al.

Form PTO-1449

								Sheet 3 of 7	
Form PTO-	1449	U.S. De	partment of	Commerce	ATTY, DOCKET NO. SERIAL NO.				
		Pate	nt and Trade	emark Office	P50881-2C1		Net-Assign	14,639	
	INFO	RMATION DISCLOSE	JRE STATEMEN	lT .	APPLICANT				
		BY APPLICA	NT		Thompson et al.				
					FILING DATE		GROUP		
	(U	se several sheets if	necessary)		Herewith		Not-Assigne	id	
	,				Feb. 13, 2	.002	163	4	
				U.S. PATENT	DOCUMENTS				
Examiner		Document	Date		Name	Class	Subclass	Filing Date	
Initial		Number						If Appropriate	
BC	BI	5,206,251	04/1993	Khanna, et a	1	514	315		
BC	BJ	5,216,168	06/1993	Khanna, et a	1,	546	242		
Be	BK	5,585,387	12/1996	Lu et al.		514	327		
Be	BL	5,668,128	09/1997	Tsubotani et	al.	514	183		
Be	вм	5,142,056	08/1992	Kempe, et al		546	265		

		Document	Date	Country	Class	Subclass	Trans	lation
	Ĺ	Number				i	Yes	No
BC	BN	EP 0 623 592	11/1994	EPO				
BC	во	WO 92/04371	03/1992	PCT (GB91/01479)				
BC	BP	WO 98/49152	11/1998	PCT				
Be	BQ	WO 98/48799	11/1998	PCT				
BC	BR	WO 98/50342	11/1998	PCT				
BC	BS	EP 0 525 420 A1	02/1993	EPO (see also US equiv. 5,639,783)				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

BT Lerner, et al., "Human Cystatin C, a Cysteine Proteinase Inhibitor, Inhibits Bone Resporption in Vitro Stimulated by Parathyroid Hormone and Parathyroid Hormone-Related Peptide of Malignancy", (1992), J. of Bone and Mineral Research, 7(9), pp. 433-439

GC BU Hill, et al., "Inhibition of Bone Resorption by Selective Inactivators of Cysteine Proteinases", (1994), J. of Cellular Biochemistry, 56, pp. 118-130

BV Delaise, et al., "The Effects of Inhibitors of Cysteine-Proteinases and Collagenase on the Resorptive Activity of Isolated Osteoclasts", Bone, 8, pp. 305-313, (1983)

BW Borg, et al., "Synthesis of 1,2,4-Oxadiazole-, 1,3,4-Oxadiazole-, and 1,2,4-Triazole-Derived Dipeptidomietics", J. Org. Chem., 60, pp. 3112-3120 (1995)

BX Boden, et al., "Total Synthesis of Lissoclinamide 5, a Cytotoxic Cyclic Peptide from the Tunicate Lissoclinum patella", (1994), Tetrahedron. Ltrs., 35(44), pp. 8271-8274

EXAMINER

DATE CONSIDERED

DATE CONSIDERED

DATE CONSIDERED

•EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

								Sheet 4 of 7				
Form PTO	-1449	U.S. Dep	artment of C	Commerce	ATTY, DOCKET NO.		SERIAL NO.					
1		Paten	t and Trader	nark Office	P50881-2C1		Not-Assign	d				
Į							10/07	4,639				
	INFO	RMATION DISCLOSU	RE STATEMENT	Г	APPLICANT .							
l		BY APPLICAN	r		Thompson et al.							
1					FILING DATE		GROUP					
ļ	(U	se several sheets if r	ecessary)		Herewith Feb. 13	2002	Not Assigne	d				
L						, 	162,4					
				U.S. PATENT	DOCUMENTS							
Examiner		Document	Date		Name	Class	Subclass	Filing Date				
Initial		Number						If Appropriate				
BC	BY	4,518,528	05/1985	D. Rasnick		260	112.5 R					
20	BZ	5,861,298	01/1999	Adag	ns ext al.		1					
Be	BE	3,601,270	01/1999	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	75 et al.	435	226					
	-						-					
BC	CA	5,948,669	09/1999	Field et al		435	226					
	es-	69/078/314		Field et al				03/13/98				
			FOI	REIGN PATEN	NT DOCUMENTS							
	Document Date Country Class Subclass Translation											
		Number Yes ! No										
1				l		[-					
		OTHER DOC	UMENTS (Inc	luding Auth	or, Title, Date, Pertinent P	ages, Etc	c.)					
	СС	Everts et al. "Degrad	ation of Collage	en in the Rone	-Resorbing Compartment Und	deriving th	e Osteoclast Inv	olves Roth				
BC			-		s", (1992), Journal of Cellula							
24	CD	f 										
BC			-	ian camepsin (O, a novel endoproteinase and	nomotogu	ie of rabbit OC2	, (1993), FEBS				
		Ltrs., 357, pp. 129-13										
BC	CE	Inaoka, et al., "Molecu	lar Cloning of	Human cDNA	for Cathepsin K: Novel Cyst	teine Prote	inase Predomin	antly Expressed				
	<u> </u>	in Bone", (1995), Bioc	hemical and B	iophysical Re	esearch Communications, 20	6(1), pp. 8	9-96					
Be	CF	Elmore, et al., "A New	Method for De	etermining the	Absolute Molarity of Solution	ns of Tryp	sin and Chymot	rypsin",				
		(1968), Biochem J., 1	97, pp. 103-107	1								
⊕ c	CG	Barker, et al., "The Re	action of an ex-	Aza-Amino A	cid Derivative with Chymotry	psin and I	s Use as a Ligar	nd", (1974),				
oc.		Biochem J., 139, 555-				•	-					
GC_	СН			Azzomithina	Phen", (1977), Tetrahedro	n 11 n 8	37.840					
	Cl							-H (1004) T				
BC	\ .		-	-	steine Proteinase Predominani	ny Express	sed in Osteocias	s , (1994), J.				
BC	0,	Biolog. Chem., 269(2)										
	C)	Gupton, et al., "Reaction	on of Azapeptic	les with Chym	otrypsin-like Enzymes", (198			рр. 4279-4287				
EXAMINE	ď	enda Co	lemas	>	Dec. 24	20	ለጓ					
					ormance with MPEP 609; Drav	v line throu	igh citation if no	tin				
contorman	ce and r	not considered. Include	copy of this for	m with next co	ommunication to applicant.							

u

Sheet_5 of 7

SERIAL NO. Not Assigned 10/074,639

		BY APPLICAN	Т		mompson et at.			
					FILING DATE		GROUP	
	(U	se several sheets if r	necessary)		Horowith Feb. 13	5005	Not-Assigne	ed .
							16,9	
				U.S. PATENT	DOCUMENTS	,		
Examiner		Document	Date		Name	Class	Subclass	Filing Date
Initial	L	Number				<u> </u>		If Appropriate
BC	CK	6,274,336 90,500,255	8/2001	250574 , F	Abdel-Meguid	435	23	10/30/96
	GL-	09/463,000		P50684				01/14/00
oc	CM_	4,038,247	07/1977	Mulier et al.		260	45.9	
BC	CN	5,830,850	11/1998	Gelb et al.		514	2	
BC	со	4,749,792	06/1988	Natarajan, et	al.	546	312	
Be	CP	4,638,010	01/1987	Weller, III.,	et al.	514	423	
			FO	REIGN PATE	IT DOCUMENTS			
		Document	Date		Country	Class	Subclass	<u>Translation</u>
		Number			·			Yes No
BC	cq	WO 95/05192	02/1995	PCT				
BC	CR	EP 0 543 310	05/1993	EPO				
BL	cs	EP 0 237 082 A	09/1987	EPO				
13C_	CT_	WO 94/00095	01/1994	PCT				
BC	CU	WO 94/24182 A	09/1995	PCT				
					or, Title, Date, Pertinent F			
BC	CV	Powers, ct al., "Reaction Chem., 259:7, pp. 428		des with Huma	in Leukocyte Elastase and Pri	cine Pancre	atic Elastase",	(1984), J. Biol.
BC.	CW	McConnell, et al., "Ne	w Leupeptin A		thesis and Inhibition Data", J			
BC	CX				hibitors of Microbial Origin",			
36	CY	Barrett, et al., "L-trans 201, p. 189-198	-Epoxysucciny	l-leucylamido	(4-guanidino)butane(E-64) ar	nd its analog	gues", (1982)	, Biochem. J.,
BC	cz	Han et al., Azatides: " 118:11, p. 2539-2544			ntheses of a New Peptidomir			
BC	DA	Grinde, "Selective Inh Acta., 701, pp. 328-33		mal Protein De	gradation By the Thiol Prote	inase" (1	982), Biochem.	J. Biophys.
XAMINER	B	renda (olema	~>	DATE CONSIDERED	ec.	24. 2	003
		If citation considered, I not considered. Inclu			conformance with MPEP 60	9; Drow lin	e through citat	ion if not in

U.S. Department of Commerce ATTY. DOCKET NO.

APPLICANT

Patent and Trademark Office P50881-2C1

INFORMATION DISCLOSURE STATEMENT

Form PTO-1449

conformance and not considered. Include copy of this form with next communication to applicant.

Form PTC	-1449	IIS De	partment of Ca		ATTY DOCKET NO		SEDIAL NO	Sheet	7.of 7
PUITIFIC	/ * 1447		pariment of Co nt and Trademo		ATTY, DOCKET NO. P50881-2C1		SERIAL NO.		
		r Grot	n dna nadenk	ark Onice	P30801-2C1		ngisoA-1014 1 F0\01		.
	INFO	RMATION DISCLOSU	RE STATEMENT		APPLICANT		10/01-	1,60	·
		BY APPLICAN			Thompson et al.				
			•		FILING DATE		GROUP		
	п	ise several sheets if r	necessary)		Herewith Feb. 13	, 2002	Not Assign	ما ان	24
			U.S	S. PATENT I	DOCUMENTS		·		
Examiner		Document	Date		Name	Class	Subclass	Filing	Date
Initial	 	Number					<u>. </u>	1	ropriate
BC	DM	5,902,882	05/1999	Wat	zinger et al.	540	604		
	DN	09/653,815					 		
			-	P50881-2) -		-	ļ	09/01/00	,
	<u>. </u>	1	E005	ICAL DATEA	IT DOCUMENTS	<u> </u>			
		Document	Date	IGN FAIEN	Country	Class	Subclass	Trans	lation
		Number	. :			Ciuss	300000	Yes	No
BC	DO	WO 99/11637	03/1999 P	CT					1
BC	DP	WO 00/38687	07/2000 P	cr					
		OTHER DOC	UMENTS (Includ	ding Autho	or, Title, Date, Pertinent I	Pages, Etc.)		
BC	DQ	B .			IV. Attempts to Activate Ri			earranger	mente
1 ~	!				rkin Trans I, Vol. 3, pp. 31		ang-crosure it	carranger	iiciits
Be	DR				ecretory agents", (1989), Ph		3 no 101 103		
BC	DS	Sridevi, et al., "Some r	eactions and rearr	angements o	of isoxazol-3-carbonyl azides	and hydrazio	des", (1990), I	ndian J.	of
٠,٠		Chem., 29B:2, pp. 182							
BC	DT				pantioselective Synthesis of t	he Hexahydr	oazepine Ring	via Chira	ıl
0.0					l. 51, No. 21, pp. 6061-6070				
BC	DU	Winkler, "Molecular M	lolding Studies of	"Flap Up" i	Mannosyl Cation Mimics", (1996), J. Med	l.Chem., 39, p	р. 4332-4	1334
					···				
	_		····				3,40		
XAMINED	$\overline{}$			т	DATE CONTOCOUR				
	B	endo-Co	leman=	·	DATE CONSIDERED	4. 20	E00		j
	_		ed whether or	not citatia	n is in conformance wit			theoa-t-	
itation if n	ot in c	conformance and no	t considered	Incheda a	opy of this form with nex		, Diuw line	wough	

n:\yps\response\P50881-2C1\1449.doc